



Indiana Department of Environmental Management
Office of Air Management
Rule Fact Sheet
November 3, 1999

**DEVELOPMENT OF AMENDMENTS TO RULES CONCERNING PARTICULATE
EMISSION LIMITATIONS FOR ROLLS-ROYCE ALLISON (ALLISON ENGINE
COMPANY) IN MARION COUNTY
#98-270(APCB)**

Overview

This rulemaking amends 326 IAC 6-1-12, the particulate matter emission limitations for Rolls-Royce Allison, formerly Allison Engine, in Marion County.

Citations Affected

Amends: 326 IAC 6-1-12

Affected Persons

The surrounding community members including citizens and industry, Southside Landfill, and Rolls-Royce Allison facilities located at 2001 South Tibbs Street, Indianapolis.

Potential Cost

There is no potential cost to the state due to these rulemaking changes. Rolls-Royce Allison projects a positive economic impact from this rule change due to a 5% reduction in energy costs.

Description

Rolls-Royce Allison (Allison Engine) operates an aircraft engine manufacturing facility in Indianapolis, Indiana. Rolls-Royce Allison has requested changes to 326 IAC 6-1-12(d) to allow five (5) boilers at Plant No. 5 and Plant No. 8 to burn landfill gas or methane as an alternate fuel. Methane is a naturally occurring

byproduct from the decomposition of organic landfill materials. The draft amendment provides that the use of #4 fuel oil shall be decreased by one hundred sixteen hundred-thousandths (.00116) gallon per cubic foot of landfill gas burned. Rolls-Royce Allison has not requested any change in their emission limits and can continue to meet their emission limits using methane gas. Other changes to the rule reflect a name change for the company and required conditions in their construction permit to burn the methane gas.

Southside Landfill contracted with Rolls-Royce Allison to provide methane gas by 12-inch pipeline that has been constructed between the two facilities. Rolls-Royce Allison obtained approval from the Utility Regulatory Commission and received a final construction permit from the Environmental Resources Management Division (ERMD) on June 10, 1999, to begin conversion of boilers to burn landfill gas. The landfill piping has been completed.

Rolls-Royce Allison will purchase enough methane to produce approximately half of the annual steam requirement needed to power hot water boilers for heat, gas turbine engine manufacturing, and test operations.

Rolls-Royce Allison's use of methane gas will redirect landfill gas currently being burned off by Southside Landfill and reducing nitrogen oxides (Nox) emissions for both sources. By using landfill gas, Rolls-Royce Allison will reduce their reliance on fossil fuel use by substituting renewable energy resources.

Rolls-Royce Allison was issued a one-year variance from the rules on September 13, 1999, that allows the company to begin to burn landfill gas until the rule is submitted and approved by the U.S. EPA as a state implementation plan (SIP) amendment.

Consideration of Factors Outlined in Indiana Code 13-14-8-4

Indiana Code 13-14-8-4 requires that in adopting rules and establishing standards, the board shall take into account the following:

- 1) All existing physical conditions and the character of the area affected.
- 2) Past, present, and probable future uses of the area, including the character of the uses of surrounding areas.
- 3) Zoning classifications.
- 4) The nature of the existing air quality or existing water quality, as appropriate.
- 5) Technical feasibility, including the quality conditions that could be reasonably be achieved through coordinated control of all factors affecting the quality.
- 6) Economic reasonableness of measuring or reducing any particular type of pollution.
- 7) The right of all persons to an environment sufficiently uncontaminated as not to be injurious to:
 - (A) human, plant animal, or aquatic life; or
 - (B) the reasonable enjoyment of life and property.

Consistency with Federal Requirements

The amended rule is consistent with federal rules and guidance.

IDEM Contact

Additional information regarding this rulemaking action can be obtained by calling (800) 451-6027 (in Indiana), press 0 and ask for Suzanne Whitmer, Rule Development Section, Office of Air Management, (or extension 2-8229) or dial (317) 232-8229.